

TITLE: Water Distribution Technician I

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DEPARTMENT: Environmental ServicesREPORTS TO: Water Operations ForemanSUPERVISES: May provide lead direction to lower level Public Utility Workers, as assigned on a project-by-project basis.DEFINITION:

This is an entry-level classification in the Water Distribution classification series. It performs functions under moderate supervision while assisting in the maintenance, monitoring and operation of the City's water distribution system with a primary emphasis on the maintenance of the system. The work is characterized as semi-skilled and skilled technical work including monitoring, troubleshooting, inspecting and repairing water distribution facilities and equipment. The position is also responsible for assisting in operating and maintaining the computerized telemetry system, primarily in a back-up or in a learning capacity. May serve as lead worker on a project-by-project basis.

DISTINGUISHING CHARACTERISTICS:

This class is distinguished from the Water Distribution Technician II position in that it assists, but does not assume, the primary responsibility for the City's water distribution and telemetry responsibilities for the SCADA system. (Supervisory Control and Data Acquisition computer software.) It is used as a learning class for someone with moderate to high skills in computer technology while also being able to perform many of the maintenance repair activities for the City water distribution systems and facilities.

ESSENTIAL JOB FUNCTIONS-- (Any one position may not include all of the duties listed nor do the listed examples include all tasks which may be found in positions of this class.)

Assists in the maintenance, troubleshooting and repairs of equipment and machinery of the City water distribution system including the computerized telemetry system, pump stations, metering stations, reservoirs, pressure reducing stations and other related equipment. Repairs or replaces control valves both electrically and hydraulically operated.

Performs daily security checks as well as regularly scheduled and preventative maintenance of equipment and facilities.

Routinely inspects all valves within Gresham's water distribution system; ensures all valves are clearly marked and accessible and valve boxes are free of debris.

Assists in the monitoring and maintenance of system performance levels and responds to and corrects telemetry system alarms, power failures, communication failures, pump failures and other problems related to system operation, as directed.

Utilizes computer technology and programs to collect, analyze, report on and make decisions based on statistical data relating to the operation of the city water system.

Assists in the operation and maintenance of the computer software applications of the telemetry system (SCADA). Learns and implements new applications as needed.

Utilizes electronic analysis equipment to monitor operation of pumping equipment and maintain records to be used in a predictive maintenance program.

Responds to customer inquiries regarding water pressure and assists with other complaints and inquiries related to the water system.

Uses a variety of hand and power-operated tools and equipment such as shovels, picks, hand and small riding mowers, tapping machine, power hacksaw, drills, jackhammer, welders, compressor and portable concrete saw.

Operates all departmental heavy equipment as required by assigned work and projects.

OTHER JOB FUNCTIONS

Rotates on call duty with other trained telemetry staff personnel.

WORKING CONDITIONS:

Most duties are performed in an office or indoor environment, but significant time is spent working outdoors in varying and extreme weather conditions, with physical hazards. Physical effort may be required to perform heavy manual labor in confined and cramped spaces and uncomfortable positions. Regular lifting of objects and equipment ranging in weight from 25 to 100 lbs. is required. Subject to 24-hour call back for emergency conditions.

QUALIFICATIONS:

Knowledge of:

- Knowledge and understanding of water works distribution systems and how they function.
- Methods, practices, tools and materials used in mechanical and electrical maintenance of water service pumps, motors, valve systems, regulators, meters and related equipment.
- Knowledge of laying water main and service line parts and fittings.
- Hydraulics, including principles of operation of various types of pumps and factors affecting pump performance.
- Basic construction techniques and practices.
- Computerized telemetry systems software and capabilities.
- Personal computer familiarity including standard word processing and spreadsheet applications.
- Work hazards and applicable safety precautions.
- Electronic instrumentation systems and components.

Ability to:

- Operate and use electro/mechanical test equipment used to troubleshoot or maintain equipment.
- Recognize, diagnose and adjust malfunctioning equipment and defects in electrical and mechanical systems.

- Read meters and charts and keep accurate records of data.
- Analyze technical data and recommend or take action based on analysis.
- Read, understand and interpret blueprints, sketches, computer software instructions and schematic diagrams.
- Learn new software and computer applications. Operate a personal computer.
- Successfully convey technical information to customers.
- Operate heavy equipment and power tools used in public works maintenance operations.
- Perform heavy manual work under confined and uncomfortable conditions.
- Communicate effectively, both orally and in writing.
- Establish and maintain effective working relationships with other employees.
- Physical ability to perform the essential functions of the job.

Education and Experience -- Any equivalent combination of education and experience which provides the applicant with the knowledge, skills, and abilities required to perform the job. A typical way to obtain the knowledge and abilities would be:

High School diploma or G.E.D. and three years directly related public works maintenance or construction experience in a water distribution operation, with one year experience operating computer programs.

Licenses, Certificates, and Other Requirements

Valid driver's license

One or more of the following certificates may required depending upon area of assignment:

Valid Commercial driver's license with appropriate endorsement

Level 2 Water Distribution Certification

Limited Electrical Maintenance License preferred

Pesticide Spray Applicators License

First Aid and CPR Certification

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